United States Patent [19] Tsay et al.			[11]	Patent Number:	4,716,120
			[45]	Date of Patent:	Dec. 29, 1987
[54]	STABLE ALLERGENIC EXTRACTS AND METHODS		[56] References Cited U.S. PATENT DOCUMENTS		
[75]	Inventors:	Yuh-Geng Tsay, San Jose; Myron A. Beigler, Los Altos Hills; Emanuel Calenoff, Burlingame; Gerald L. Friesen, Vacaville; James L. Nichols, Los Altos, all of Calif.	3,983,053 9/1976 Courtney et al		
[73]	Assignee:	Minnesota Mining and Manufacturing Company, St. Paul,			
[21]	Appi. No.:	Minn. 801,649			
[22]	Filed:	Nov. 25, 1985	[57]	ABSTRACT	
[63]		ted U.S. Application Data n of Ser. No. 476,187, Mar. 17, 1983, aban-	A storage-stable, high potency allergenic extract is prepared by ultrafiltration, retaining fractions having molecular weights of from 1000 to 100,000, and treating the solution with gel polymer and/or carbon absorbents. The extract is dried to a moisture content of less		

436/809

531, 809

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[52] U.S. Cl. ...... 436/513; 210/650;

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## 23 Claims, No Drawings

colorless for extended periods.

than one weight percent water. The purified solution

and aqueous reconstituted solutions of the dried extract provide a transparent, colorless solution which has greatly increased stability, remaining transparent and